Last name	
First name	

LARSON—MATH 350—CLASSROOM WORKSHEET 21 Integers and Primes

Review

- What does it mean for integer a to divide integer b (that is, a|b)?
- What is a *prime* number?
- If a, b are integers and b = aq + r (for integers q, r with $0 \le r < a$), what are q and r called?
- (Claim:) Every positive integer can be written as the product of primes.
- (Claim:) Every positive integer can be written uniquely as the product of primes.

New

1. (Claim:) $\sqrt{2}$ is irrational.

2. (Claim:)	There are infinitely many primes.
3. (Claim:)	For every positive integer k , there exist k consecutive composite integers.
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